

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113937 A1

(51) International Patent Classification⁷: **G01R 19/164**,
17/14

[DE/DE]; c/o Philips Intellectual Property &, Standards
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(21) International Application Number:
PCT/IB2004/050927

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(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03101870.8 25 June 2003 (25.06.2003) EP

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

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BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ,
DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG,
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(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

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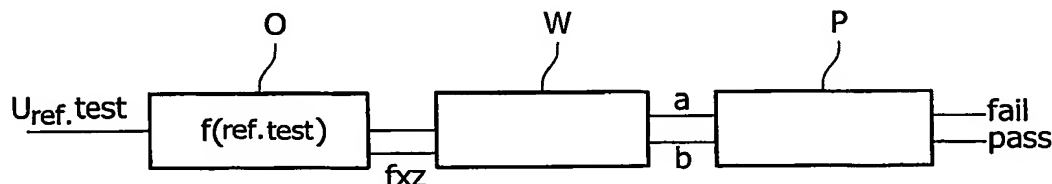
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Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: METHOD AND CIRCUIT ARRANGEMENT FOR THE SELF-TESTING OF A REFERENCE VOLTAGE IN ELEC-
TRONIC COMPONENTS



(57) Abstract: To provide a method for the self-testing of a reference voltage in electronic components, by means of which method there is specified a circuit arrangement for a self-test of the reference voltage that can be implemented in the form of an on-chip test, i.e. for which no external reference voltage source is required, provision is made for the reference voltage (U_{ref}) to be fed to a voltage-controlled oscillator whose output forms the input to a Wien-Robinson bridge whose output signal is checked in a phase detector for its phase shift relative to the input to the Wien-Robinson bridge to check the balance of the Wien-Robinson bridge, the Wien-Robinson bridge being set to be balanced at a frequency ($\Omega_{ref.test}$) that is generated in the oscillator at the nominal value ($U_{ref.test}$) selected for the reference voltage (U_{ref}), and a pass signal is generated if the bridge is balanced and a fail signal is generated if it is not.

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